

**WHAT IS CLAIMED IS:**

1. A network service system comprising:

a data server for receiving contents from a plurality of network web servers that respectively provide the contents, and providing the contents to  
5 a portable terminal via the network, the data server comprising a contents processor for processing the contents transmitted by the web servers according to standards of the portable terminal.

2. The system of claim 1, wherein the contents processor has an image compression function for reducing sizes and number of colors of  
10 images, and the data server further comprises a proxy unit for calling the contents processor in the case the contents transmitted by the web servers contain image information.

3. A network service method for providing network contents to a portable terminal via a data server, the data server processing the contents  
15 requested by the portable terminal so as to fit standards of the portable terminal, and providing the processed contents to the portable terminal.

4. A network service system comprising:

a user terminal for receiving contents from a plurality of network web servers that respectively provide the contents and providing the contents to a  
20 portable terminal, the user terminal comprising a contents processor for processing the contents transmitted by the web servers according to standards of the portable terminal.

5. The system of claim 4, wherein the contents processor has an image compression function for reducing sizes and number of colors of  
25 images, and the user terminal further comprises a proxy unit for calling the

contents processor in the case the contents transmitted by the web servers contain image information.

6. A network service method for providing network contents to a portable terminal via a user terminal, the user terminal processing the  
5 contents requested by the portable terminal so as to fit standards of the portable terminal, and providing the processed contents to the portable terminal.

7. A data server for providing network contents to a portable terminal, the data server for processing the network contents according to standards  
10 of the portable terminal, and when the contents are inappropriate for the standards of the portable terminal, activating processing of the network contents according to the standards of the portable terminal.

8. A computer program for implementing a first function for processing network contents according to standards of a portable terminal,  
15 and a second function for activating processing of the network contents according to the standards of the portable terminal when the contents are inappropriate for the standards of the portable terminal, in a computer for providing network contents to the portable terminal.

9. A portable terminal for receiving network contents via a data  
20 server that has a processing function for processing the network contents according to standards of the portable terminal, and a controlling function for activating the processing function when the contents are inappropriate for the standards of the portable terminal.

10. A data server, to which a portable terminal is connected via a  
25 network for receiving contents from a plurality of web servers that

respectively provide the contents, comprising:

an image compressor for receiving the contents from the web servers and reducing sizes or number of colors of images according to standards of the portable terminal; and

5 a proxy unit for monitoring the contents transmitted by the portable terminal or the web server, and when the contents transmitted by the web servers include image information, calling the image compressor.

11. The data server of claim 10, further comprising a filter for filtering information that is inappropriate or not necessary for the portable terminal,  
10 from among the contents transmitted by the web servers.

12. The data server of claim 10 or 11, further comprising a channel generator for gathering a plurality of contents having a predetermined subject, provided by the web servers, and binding the contents into a single channel (i.e., performing a channeling).

13. The data server of claim 12, wherein the channel generator  
15 inserts advertisement contents into the contents of the predetermined subject and channels them.

14. The data server of claim 12, wherein the web servers provide the contents to the data server via the network.

15. The data server of claim 12, wherein the proxy unit checks  
20 whether a uniform resource locator (URL) input by the portable terminal is a channel URL that is of a set of URLs of a plurality of the web servers that provide the contents of a predetermined subject, and when the URL input by the portable terminal is a channel URL, the proxy unit calls the channel  
25 generator.

16. The data server of claim 15, wherein the portable terminal includes a plurality of channel icons that respectively have channel URL information of a predetermined subject, and wherein a user sets a channel icon of the portable terminal and inputs the channel URLs.

5        17. The data server of claim 16, wherein the channel icon of the portable terminal is downloaded from the data server.

18. The data server of claim 16, wherein the portable terminal comprises a program for making or editing the channel icon.

19. The data server of claim 16, wherein the portable terminal  
10 receives the channel icon via a computer, the channel icon being made or edited by the user using the computer that includes the program for making or editing the channel icon.

20. In a service method of a network service system, to which a portable terminal is connected via the network for receiving contents from a  
15 plurality of web servers that provide the contents, a network service method comprising:

requesting, when a uniform resource locator (URL) of a web server that provides the contents is input via the portable terminal, the contents from the web server corresponding to the input URL;

20        reducing sizes or number of colors of the images of the contents transmitted by the web server and compressing the images according to standards of the portable terminal so as to convert the contents; and

transmitting the converted contents to the portable terminal via the network.

25        21. The network service method of claim 20, further comprising:

filtering information that is inappropriate or not necessary for the portable terminal, from among the contents provided by the web server.

22. The network service method of claim 20 or 21, further comprising:

5       checking whether the URL input by the portable terminal is a channel URL that is of a set of URLs of a plurality of web servers that provide contents of a predetermined subject; and

          gathering, when the URL is of the channel URLs, the contents of the predetermined subject transmitted by the web servers and binding the  
10 contents into a single channel (i.e., performing channeling).

23. The network service method of claim 22, wherein in the performance of channeling, advertisement contents are inserted into the contents of a predetermined subject and then a channeling step is performed on them.

15       24. In a network service system, to which a portable terminal is connected via the network for receiving contents from a plurality of web servers that provide the contents, a network service system comprising:

          a data server for receiving the contents from the web servers and processing the contents to convert them according to standards of the  
20 portable terminal, and transmitting the converted contents to the portable terminal via the network; and

          an advertisement server, connected to the data server via the network, for storing various advertisement contents.

25       25. The system of claim 24, wherein the data server comprises:

          an image compressor for receiving the contents from the web

servers, reducing sizes and number of colors of images of the contents and compressing the images according to standards of the portable terminal;

a filter for filtering information that is inappropriate or not necessary for the portable terminal from among the contents transmitted by the web

5 server;

a channel generator for gathering the contents of a predetermined subject provided by the web servers and binding them into a single channel;

a user database for storing user data corresponding to user information input by the portable terminal; and

10 a proxy unit for monitoring the data transmitted by the portable terminal or the web server, and calling and controlling the image compressor, the filter and the channel generator according to the data.

26. The system of claim 25, wherein the proxy unit calls the image compressor when the contents transmitted by the web server include image  
15 information.

27. The system of claim 25, wherein the proxy unit checks whether a URL input by the portable terminal is a channel URL that is of a set of URLs of the web servers that provide the contents of a predetermined subject, and in the case the URL input by the portable terminal is a channel URL, the  
20 proxy unit calls the channel generator.

28. The system of claim 25, wherein the channel generator inserts advertisement contents transmitted by the advertisement server into the contents of a predetermined subject provided by the web server and binds them.

25 29. The system of claim 28, wherein the proxy unit extracts user data

corresponding to user information input by the portable terminal from the user database and transmits the extracted user data to the advertisement server, and the advertisement server transmits the advertisement contents based on the extracted user data to the proxy unit.

5           30. The system of claim 29, wherein the user information includes ID and passwords, and the user data include at least one of user's general information, electronic commerce information and previously transmitted advertisement information.

10           31. The system of claim 29, wherein the advertisement server is connected to the data server via an exclusive network.

32. The system of claim 29, wherein the advertisement server connected to the data server via the network is a web server of an advertisement contents provider.

15           33. The system of claim 29, wherein in the case the converted contents comprise a plurality of streams, the proxy unit controls timing of each transmission stream.

20           34. In a network service method of a network service system, to which a portable terminal is connected via the network for receiving contents from a plurality of web servers that provide the contents, a network service method comprising:

searching, when a uniform resource locator (URL) of a web server for providing the contents via the portable terminal and user information are input, a user database and extracting user data;

25           requesting the contents from the web server corresponding to an input URL, and transmitting the extracted user data to an advertisement

server;

filtering information that is inappropriate or not necessary for the portable terminal from among the contents transmitted by the web server;

reducing sizes or number of colors of images of the filtered contents  
 5 or compressing the images according to standards of the portable terminal,  
 and inserting advertisement contents corresponding to the user data  
 transmitted by the advertisement server into the filtered contents to convert  
 the contents; and

transmitting the converted contents to the portable terminal via the  
 10 network.

35. The method of claim 34, further comprising:

checking whether the URL input by the portable terminal is a channel  
 URL that is of a set of URLs of a plurality of web servers that provide  
 contents of a predetermined subject; and

15 gathering the contents of a predetermined subject provided by the  
 web server and binding the same into a single channel.

36. In a portable terminal for receiving contents from a network web  
 server, a portable terminal comprising:

a network interface for accessing the web server via the network;  
 20 and

a contents processor for processing the contents provided by the  
 web server to fit its standards.

37. The terminal of claim 36, wherein the contents processor  
 reduces sizes or number of colors of images, and comprises a proxy unit for  
 25 monitoring the contents transmitted by the web server, and when the





an image compressor for receiving the contents from the web servers and reducing sizes and number of colors of images of the contents provided by the web servers;

a controller for monitoring the contents transmitted by the web server,  
5 and when the contents transmitted by the web server include image information, calling the image compressor; and

a communication port for transmitting the contents processed by the controller to the portable terminal.

43. The terminal of claim 42, wherein the controller further comprises  
10 a filter for filtering information that is inappropriate or not necessary for the portable terminal, from among the contents provided by the web servers.

44. The terminal of claim 42 or 43, wherein the controller further comprises a channeling unit for gathering a plurality of contents of a predetermined subject provided by a plurality of web servers and binding the  
15 contents into a single channel.

45. A computer program for implementing a contents processing function for processing contents transmitted by a web server to fit standards of a portable terminal, and a communication port function for transmitting the processed contents to the portable terminal, by a computation function of a  
20 user terminal for receiving the contents from a network web server.

46. A computer program for implementing a network interface function for accessing a plurality of web servers via a network and receiving corresponding contents, with an image compression function for reducing sizes or number of colors of images of the contents provided by the web  
25 servers to fit standards of a portable terminal, a controlling function for

monitoring the contents transmitted by the web servers, and when the contents transmitted by the web servers include image information, performing the image compression function, and a communication port function for transmitting the contents processed by the controlling function to  
5 the portable terminal, by a computation function of a user terminal for accessing the portable terminal and the web servers via the network.